

1 What is claimed:

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3 1. A scalable optical disc player comprising:
4 a top and bottom cover, each cover having a pair of mounting posts adjacent a back side
5 of the player;
6 a top and bottom set of wings, each wing pivotally couples to the respective mounting
7 post and including a guide pin; and
8 a top and bottom sleeve movably coupled between the respective cover and pair of wings,
9 each sleeve includes a pair of guide slots being positioned to receive each respective
10 guide pin of each wing.

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13 2. The disc player of claim 1, further including a data transfer device (“DTD”) attached to a
14 surface of the bottom cover.

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17 3. The disc player of claim 2, further including data connectors coupled between an exterior
18 surface of the bottom cover and the DTD for transferring data from the disc to the connectors,
19 via the DTD.

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4. The disc player of claim 3, wherein the DTD can read and/or write data to/from the disc.

1 6. The disc player of claim 5, wherein the expansion and contraction of the sleeves and set
2 of wings increases or decreases the overall size of the disc player.

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4 7. The disc player of claim 1, wherein each wing of the top and bottom set of wings further
5 include a flange adjacent either the left or right side of the disc player to protect the disc being
6 contained within the disc player.

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8 8. The disc player of claim 1, wherein each sleeve of the top and bottom sleeves further
9 include a flange adjacent the front side of the disc player to protect the disc being contained
10 within the disc player.

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12 9. The disc player of claim 1, wherein the top and bottom covers hingably couple to provide
13 the disc player with an open and closed position for inserting, containing and removing the disc.

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15 10. The disc player of claim 1, wherein a portion of the top cover is translucent or transparent
16 to allow any indicia on the disc to be visible while being contained by the disc player.

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18 11. The disc player of claim 1, wherein the top cover further include a first wall of a first
19 height adjacent the back side of the disc player, and a second wall of a second height adjacent a
20 side portion of the disc player, the first height being greater then the second height.

1 12. A portable disc player having a casing for containing various disc sizes, the casing
2 comprising:
3 a top and bottom shell movably attached to allow the insertion and removal of the disc
4 within a cavity of the casing;
5 a data transfer device ("DTD") attached to the bottom shell for transferring data; and
6 a mechanism for scaling the overall size of the player to accommodate disc size.

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8 13. The casing of claim 12, further including a I/O port coupled between an exterior surface
9 of the disc player and the DTD to transfer audio, video or computer data from the disc to a
10 speaker, video display or a processor, via the DTD.

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12 14. The casing of claim 12, wherein the disc may be a CD or DVD having a size selected
13 from the group including 120mm and 80mm.

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15 15. The casing of claim 12, wherein the top and a bottom shell further include a first wall
16 having a first height that extends along a portion of the shell parameter.

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18 16. The casing of claim 15, wherein the top shell further includes a second wall having a
19 second height along a portion of the sides of the disc player.

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1 17. The casing of claim 16, wherein the top and the bottom shell further includes two
2 mounting posts adjacent a back side, and the mechanism further includes:
3 a top and bottom sleeve movably coupled to an interior surface of the top and bottom
4 shell, respectively, each sleeve having two guide slots and a flange along a front side
5 of the casing;
6 a top and bottom pair of wings, each wing providing a guide pin and a flange along either
7 the left or right side of the casing,
8 wherein the shells hindgibly couple together, each wing pivotally attaches to the
9 respective cover and movably couples to the respective shell by the guide slot to accommodate
10 the varying size discs being coupled to the DTD.

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12 18. The casing of claim 17, wherein the top and bottom shell, sleeve and set of wings are
13 made from a flexible material such as plastic.

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15 19. The casing of claim 17, wherein the difference in height between the first and the second
16 wall is similar to the thickness of the disc and the top and bottom pair of wings.



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2 20. A process for containing an optical disc within casing of a portable disc player or
3 recorder having a case scaling mechanism, the process comprising:

4 opening a top portion of the casing to expose a shell cavity;

5 securing the disc to a data transfer device ("DTD") within the shell cavity; and

6 closing the top portion to contain a portion of the disc within the shell cavity.

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8 21. The process of claim 20, further including the step of adjusting the size of the casing to
9 accommodate the relative size of the disc before the step of closing.

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11 22. The process of claim 21, wherein the step of adjusting further includes pulling and
12 pushing on a sleeve of the case scaling mechanism to increase and decrease, respectively, the
13 shell cavity and a structural size of the disc player for containing a disc.

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15 23. The process of claim 20, further including the step of coupling the disc player to a device
16 selected from the group including a processor, a video display and a speaker to view the
17 computer, video and audio data of the disc, respectively.

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